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 Terms used [xml](#) [logic](#) [calculus](#) [query](#) [element predicate](#) [path predicate](#)

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### 1 [UnQL: a query language and algebra for semistructured data based on structural recursion](#)

Peter Buneman, Mary Fernandez, Dan Suciu

 March 2000 **The VLDB Journal — The International Journal on Very Large Data Bases**,  
 Volume 9 Issue 1

Publisher: Springer-Verlag New York, Inc.

 Full text available: [pdf\(414.32 KB\)](#) Additional Information: [full citation](#), [abstract](#), [citations](#), [index terms](#)

This paper presents structural recursion as the basis of the syntax and semantics of query languages for semistructured data and XML. We describe a simple and powerful query language based on pattern matching and show that it can be expressed using structural recursion, which is introduced as a top-down, recursive function, similar to the way XSL is defined on XML trees. On cyclic data, structural recursion can be defined in two equivalent ways: as a recursive function which evaluates the data t ...

**Keywords:** Optimization, Query language, Semistructured data, Structural recursion, XML, XSL

### 2 [A Web Odyssey: from Codd to XML](#)



Victor Vianu

 May 2001 **Proceedings of the twentieth ACM SIGMOD-SIGACT-SIGART symposium on Principles of database systems**

Publisher: ACM Press

 Full text available: [pdf\(282.10 KB\)](#) Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#)

### 3 [XAL: an algebra for XML query optimization](#)

Flavius Frasincar, Geert-Jan Houben, Cristian Pau

 January 2002 **Australian Computer Science Communications , Proceedings of the thirteenth Australasian conference on Database technologies - Volume 5 CRPITS '02**, Volume 24 Issue 2

Publisher: Australian Computer Society, Inc. , IEEE Computer Society Press

 Full text available: [pdf\(867.42 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

This paper proposes XAL, an XML ALgebra. Its novelty is based on the simplicity of its data model and its well-defined logical operators, which makes it suitable for *composability*, *optimizability*, and *semantics definition* of a query language for XML data. At the heart of the algebra resides the notion of *collection*, a concept similar to the mathematician's monad or functional programmer's comprehension. The operators are



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# 1 [XIRQL: a query language for information retrieval in XML documents](#)



Norbert Fuhr, Kai Großjohann

 September 2001 **Proceedings of the 24th annual international ACM SIGIR conference on Research and development in information retrieval**

Publisher: ACM Press

 Full text available: [pdf\(234.90 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

Based on the document-centric view of XML, we present the query language XIRQL. Current proposals for XML query languages lack most IR-related features, which are weighting and ranking, relevance-oriented search, datatypes with vague predicates, and semantic relativism. XIRQL integrates these features by using ideas from logic-based probabilistic IR models, in combination with concepts from the database area. For processing XIRQL queries, a path algebra is presented, that also serves as ...

# 2 [The webpace method: on the integration of database technology with multimedia retrieval](#)



Roelof van Zwol, Peter M. G. Apers

 November 2000 **Proceedings of the ninth international conference on Information and knowledge management**

Publisher: ACM Press

 Full text available: [pdf\(208.62 KB\)](#) Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#)

**Keywords:** concept-based search, content-based information retrieval, daemon data dictionary, modelling data on the web

# 3 [XML constraints and the semantic web: Information retrieval on the semantic web](#)



Urvi Shah, Tim Finin, Anupam Joshi

 November 2002 **Proceedings of the eleventh international conference on Information and knowledge management**

Publisher: ACM Press

 Full text available: [pdf\(192.40 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#)

We describe an approach to retrieval of documents that contain of both free text and semantically enriched markup. In particular, we present the design and implementation prototype of a framework in which both documents and queries can be marked up with statements in the DAML+OIL semantic web language. These statements provide both structured and semi-structured information about the documents and their content. We



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structured multimedia retrieval query language "path predicate"



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**structured multimedia retrieval query language path predicate calculus logic formalism xml mpeg relational calculus element predicate**

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1 [An analysis of XML database solutions for the management of MPEG-7 media](#)



[descriptions](#)

Utz Westermann, Wolfgang Klas

December 2003 **ACM Computing Surveys (CSUR)**, Volume 35 Issue 4

**Publisher:** ACM Press

Full text available: [pdf\(448.76 KB\)](#)

Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#), [review](#)

MPEG-7 constitutes a promising standard for the description of multimedia content. It can be expected that a lot of applications based on MPEG-7 media descriptions will be set up in the near future. Therefore, means for the adequate management of large amounts of MPEG-7-compliant media descriptions are certainly desirable. Essentially, MPEG-7 media descriptions are XML documents following media description schemes defined with a variant of XML Schema. Thus, it is reasonable to investigate current ...

**Keywords:** MPEG-7, XML database systems, multimedia databases

2 [Multimedia database query processing and retrieval: Semantic retrieval of multimedia](#)



[data](#)

Samira Hammiche, Salima Benbernou, Mohand-Saïd Hacid, Athena Vakali

November 2004 **Proceedings of the 2nd ACM international workshop on Multimedia databases**

**Publisher:** ACM Press

Full text available: [pdf\(194.68 KB\)](#)

Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

This paper deals with the problem of finding multimedia data that fulfill the requirements of user queries. We assume both the user query and the multimedia data are expressed by MPEG-7 standard. The MPEG-7 formalism lacks the semantics and reasoning support in many ways. For example, the search of the implicit data can not be achieved, due to its description based on XML schema. We propose a framework for querying multimedia data based on a tree embedding approximation algorithm, combining t ...

**Keywords:** MPEG-7, approximation, multimedia data, ontologies, tree embedding

3 [Multimedia data indexing: Looking at mapping, indexing & querying of MPEG-7](#)



[descriptors in RDBMS with SM3](#)

Yang Chu, Liang-Tien Chia, Sourav S. Bhowmick



Published before June 2003

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November 2000 **Proceedings of the ninth international conference on Information and knowledge management**

**Publisher:**